

LISTING OF THE CLAIMS

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- 1 1. (Currently Amended) A network scanner ~~apparatus connected to a least one~~  
2 ~~terminal via a network~~, comprising:  
3       ~~a control portion which controls the network by the use of a transmission~~  
4 ~~control protocol and an Internet~~ means which controls a network by TCP/IP protocol;  
5       a readout ~~portion~~ means which ~~reads-out~~ reads out a paper to produce an  
6 image data signal;  
7       an operation portion input means which inputs an ~~Internet protocol~~ IP address  
8 as a transmitting destination of the image data signal;  
9       converting means which converts the IP address of the transmitting destination  
10 inputted by the input means into a MAC address by using address resolution protocol  
11 (ARP); and  
12       ~~a transmission portion which directly~~ communication means which transmits  
13 the image data signal obtained by the readout means to a terminal having the inputted  
14 IP address of the transmitting destination on the network by packet switching.
- 1 2. (Cancelled)
- 1 3. (Cancelled)
- 1 4. (Cancelled)
- 1 5. (Cancelled)
- 1 6. (Cancelled)

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- 1 7. (Cancelled)
- 1 8. (Cancelled)
- 1 9. (Cancelled)
- 1 10. (Cancelled)
- 1 11. (Cancelled)
- 1 12. (Cancelled)
- 1 13. (Cancelled)
- 1 14. (Cancelled)
- 1 15. (Cancelled)
- 1 16. (Cancelled)
- 1 17. (Cancelled)
- 1 18. (Cancelled)
- 1 19. (Cancelled)
- 1 20. (Cancelled)
- 1 21. (Cancelled)

1     22. (New) A network scanner apparatus as claimed in claim 1, further comprising:  
2             storing mean which caches the MAC address converted by the converting  
3     means for a constant time;  
4             wherein the IP address inputted by the input means is converted to the MAC  
5     address by the use of the MAC address cached in the storing means.

1     23. (New) A network scanner apparatus as claimed in claim 1, further comprising:  
2             network storing means which registers an IP address of the network scanner  
3     apparatus itself that transmits the image data signal, a subnet mask and a default root;  
4             judging means which judges whether or not an AND value between the IP  
5     address of the transmitting destination and the subnet mask is equal to an AND value  
6     between the IP address of the apparatus itself registered in the network storing means  
7     and the subnet mask;  
8             default converting means which converts the IP address of the default root into  
9     the MAC address by using the address resolution protocol (ARP); and  
10            router communication means which transmits the image data signal into a  
11    router having the IP address of the default root by the packet switching; wherein;  
12            when the AND values are equal to each other, the IP address is converted into  
13    the MAC address by the converting means and the image data signal is transmitted  
14    into the terminal having the IP address of the transmitting destination by the  
15    communication means, and  
16            when the AND values are not equal to each other, the IP address is converted  
17    into the MAC address by the default converting means and the image data signal is  
18    transmitted into the router having the IP address of the default root by the router  
19    communication means.

1     24. (New) A computer-readable storage medium, storing a program executed by a  
2     network scanner apparatus, comprising the steps of:  
3             controlling a network by TCP/IP protocol;  
4             reading out a paper to produce an image data signal;

5           inputting an IP address as a transmitting destination of the image data signal;  
6           converting the inputted IP address of the transmitting destination into a MAC  
7 address by using address resolution protocol (ARP); and  
8           transmitting the image data signal into a terminal having the inputted IP  
9 address of the transmitting destination on the network by packet switching.

1   25 (New) A computer-readable storage medium, storing a program executed by a  
2 network scanner apparatus, comprising the steps of:  
3           controlling a network by TCP/IP protocol;  
4           reading out a paper to produce an image data signal;  
5           inputting an IP address as a transmitting destination of the image data signal;  
6           converting the inputted IP address of the transmitting destination into a MAC  
7 address by using address resolution protocol (ARP);  
8           caching the converted MAC address for a constant time;  
9           converting the inputted IP address into the MAC address by the use of the  
10 cached MAC address;  
11          transmitting the image data signal into a terminal having the inputted IP  
12 address of the transmitting destination on the network by packet switching.

1   26. (New) A computer-readable storage medium, storing a program executed by a  
2 network scanner apparatus which registers an IP address of a computer itself that  
3 transmits an image data signal, a subnet mask and a default root, comprising the steps  
4 of:  
5           controlling a network by TCP/IP protocol;  
6           reading out a paper to produce an image data signal;  
7           inputting an IP address as a transmitting destination of the image data signal;  
8           converting the inputted IP address of the transmitting destination into a MAC  
9 address by using address resolution protocol (ARP);  
10          transmitting the image data signal into a terminal having the inputted IP  
11 address of the transmitting destination on the network by packet switching;

12           judging whether or not an AND value between the IP address of the  
13   transmitting destination and the subnet mask is equal to an AND value between the IP  
14   address of the computer itself and the subnet mask;  
15           converting the IP address of the default root into the MAC address by using  
16   the address resolution protocol (ARP); and  
17           transmitting the image data signal into a router terminal having the IP address  
18   of the default root by the packet switching; wherein;  
19           when the AND values are equal to each other, the IP address is converted into  
20   the MAC address and the image data signal is transmitted into the terminal having the  
21   IP address of the transmitting destination, and  
22           when the AND values are not equal to each other, the IP address is converted  
23   into the MAC address and the image data signal is transmitted into the router having  
24   the IP address of the default root.